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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE


Application. No:	10/669,028
Filed:	September 23, 2003
Inventor(s):	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules, John P. Havener and Steven J. McGarel
Title:	KILN THERMAL AND COMBUSTION CONTROL

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|-----------------|---------------|
| Examiner:       | Bahta, Kidest |
| Group/Art Unit: | 2125          |
| Atty. Dkt. No:  | 5650-04211    |

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Alexandria, VA 22313-1450, on the date indicated below.

Jeffrey C. Hood

2/16/2006                        
Date                                      Signature

## TRANSMITTAL OF POWER OF ATTORNEY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir/Madam:

Please find attached a Power of Attorney with regard to the above-identified patent application. If there are any questions regarding this matter, please contact me.

Respectfully submitted,

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Jeffrey C. Hood  
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Date: 2/16/2006



## POWER OF ATTORNEY

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PAVILION TECHNOLOGIES, INC., ("assignee"), a Delaware corporation having a place of business at 10415 Morado Circle, Building III, Suite 100, Austin, Texas 78758-5638, certifies that to the best of assignee's knowledge and belief it is the assignee of the entire right, title, and interest in and to the patents or patent applications listed on the attached Appendix A and represents that the undersigned is a representative authorized and empowered to sign on behalf of the assignee.

Assignee's ownership of the patents or patent applications listed on the attached Appendix A is indicated either by 1) the assignment(s) recorded with the U.S. Patent and Trademark Office at the reel and frame numbers listed on Appendix A or 2) Assignee's assertion that Assignee has reviewed the assignment documents that evidence the placement of title in the assignee, true and correct copies of which are attached hereto, and understands and believes that these assignment documents have been submitted for recordation in the U.S. Patent and Trademark Office.

Pursuant to 37 C.F.R. §§1.36 and 3.71, the assignee hereby revokes all powers of attorney previously given and appoints the following attorneys and/or agents in connection with the patent applications and patents identified in Appendix A, that are filed with the United States Patent and Trademark Office:

**the practitioners at Customer Number 35690, which currently includes:**

|                     |                 |                       |                 |
|---------------------|-----------------|-----------------------|-----------------|
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| Steve J. Curran     | Reg. No. 50,664 | Neal E. Persky        | Reg. No. 53,452 |
| Mark R. DeLuca      | Reg. No. 44,649 | Elizabeth Philip Dahm | Reg. No. 51,352 |
| Russell E. Henrichs | Reg. No. 50,354 | David W. Quimby       | Reg. No. 39,338 |
| Erik A. Heter       | Reg. No. 50,652 | Rory D. Rankin        | Reg. No. 47,884 |
| Jeffrey C. Hood     | Reg. No. 35,198 | Gareth M. Sampson     | Reg. No. 52,191 |
| Rajiv Jauhari       | Reg. No. 55,850 | Chris D. Thompson     | Reg. No. 43,188 |
| B. Noël Kivlin      | Reg. No. 33,929 | Mark S. Williams      | Reg. No. 50,658 |
| Robert C. Kowert    | Reg. No. 39,255 | Martin R. Wojcik      | Reg. No. 57,577 |
| Mario J. Lewin      | Reg. No. 54,268 |                       |                 |

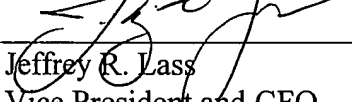
*each of said attorneys or agents being a member or an associate of the firm of Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C., as its attorney or agent for so long as they remain with such firm, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.*

Pursuant to 37 C.F.R. §3.71, the assignee hereby states that prosecution of the above-referenced patent application is to be conducted to the exclusion of the inventor(s).

Send all future correspondence to: Jeffrey C. Hood  
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Dated: February 14, 2006

By:   
Name: Jeffrey R. Lass  
Title: Vice President and CFO

## Appendix A

| MHKKG<br>Docket No.                                      | Title                                                                                                        | Inventor(s)                                                                                                                                          | Date<br>Filed | Serial No. | Date Issued | Patent No. | Assignment<br>Recordation<br>Reel/Frame Nos.                            |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|-------------|------------|-------------------------------------------------------------------------|
| 5650-04100<br><br>(formerly<br>H & A No.<br>PAVI-26,786) | KILN THERMAL AND<br>COMBUSTION CONTROL                                                                       | Gregory D. Martin, Eugene<br>Boe, Stephen Piche, James<br>David Keeler, Douglas<br>Timmer, Mark Gerules, John<br>P. Havener and Steven J.<br>McGarel | 05/11/04      | 10/843,160 |             |            | 010844/0464<br>015545/0855                                              |
| 5650-04101                                               | KILN THERMAL AND<br>COMBUSTION CONTROL                                                                       | Gregory D. Martin, Eugene<br>Boe, Stephen Piche, James<br>David Keeler, Douglas<br>Timmer, Mark Gerules and<br>John P. Havener                       | 09/26/05      | 11/234,927 |             |            | 010844/0464<br>015545/0855                                              |
| 5650-04211<br><br>(formerly<br>H & A No.<br>PAVI-26,490) | KILN THERMAL AND<br>COMBUSTION CONTROL                                                                       | Gregory D. Martin, Eugene<br>Boe, Stephen Piche, James<br>David Keeler, Douglas<br>Timmer, Mark Gerules, John<br>P. Havener and Steven J.<br>McGarel | 09/23/03      | 10/669,028 |             |            | 011484/0309<br>015541/0393<br>015547/0358                               |
| 5650-04212<br><br>(formerly<br>H & A No.<br>PAVI-26,787) | DYNAMIC CONTROLLER FOR<br>CONTROLLING A SYSTEM                                                               | Gregory D. Martin, Eugene<br>Boe, Stephen Piche, James<br>David Keeler, Douglas<br>Timmer, Mark Gerules and<br>John P. Havener                       | 05/17/04      | 10/847,211 |             |            | 010405/0041<br>010321/0843<br>010452/0001<br>011944/0930<br>011958/0068 |
| 5650-04213<br><br>(formerly<br>H & A No.<br>PAVI-27,012) | KILN CONTROL AND UPSET<br>RECOVERY USING A MODEL<br>PREDICTIVE CONTROL IN<br>SERIES WITH FORWARD<br>CHAINING | Gregory D. Martin, Steven J.<br>McGarel                                                                                                              | 01/03/05      | 11/028,426 |             |            | 015909/0836                                                             |
| 5650-04223                                               | KILN FREE LIME CONTROL                                                                                       | Gregory D. Martin, Eugene<br>Boe, Stephen Piche, James<br>David Keeler, Douglas<br>Timmer, Mark Gerules, John<br>P. Havener and Steven J.<br>McGarel | 12/22/05      | 11/317,499 |             |            | 011484/0309<br>015547/0358                                              |

## Appendix A

| MHKKG<br>Docket No.                                  | Title                                                                           | Inventor(s)                                                                           | Date<br>Filed | Serial No. | Date Issued | Patent No. | Assignment<br>Recordation<br>Reel/Frame Nos.                                           |
|------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|------------|-------------|------------|----------------------------------------------------------------------------------------|
| 5650-04301<br>(formerly<br>H & A No.<br>PAVI-25,461) | METHOD AND APPARATUS<br>FOR TRAINING A SYSTEM<br>MODEL WITH GAIN<br>CONSTRAINTS | Eric J. Hartman, Stephen<br>Piche and Mark Gerules                                    | 09/14/00      | 09/662,243 |             |            | 011413/0321                                                                            |
| 5650-04302                                           | METHOD AND APPARATUS<br>FOR TRAINING A SYSTEM<br>MODEL WITH GAIN<br>CONSTRAINTS | Eric J. Hartman, Stephen<br>Piche and Mark Gerules                                    | 11/04/05      | 11/267,812 |             |            | 011413/0321                                                                            |
| 5650-04502<br>(formerly<br>H & A No.<br>PAVI-26,525) | BAYESIAN NEURAL<br>NETWORKS FOR<br>OPTIMIZATION AND CONTROL                     | Eric Jon Hartman, Carsten<br>Peterson, Stephen Piche                                  | 04/20/04      | 10/827,977 |             |            | 010023/0119<br>010405/0041<br>010321/0843<br>010452/0001<br>011944/0930<br>011958/0068 |
| 5650-04602<br>(formerly<br>H & A No.<br>PAVI-26,575) | METHOD AND APPARATUS<br>FOR MAXIMIZING POWER<br>USAGE IN A POWER PLANT          | John P. Havener                                                                       | 01/12/04      | 10/755,719 |             |            | 011424/0021                                                                            |
| 5650-04801<br>(formerly<br>H & A No.<br>PAVI-25,974) | E-COMMERCE SYSTEM USING<br>MODELING OF INDUCEMENTS<br>TO CUSTOMERS              | Edmond Herschap III,<br>Timothy J. Magnuson,<br>Thomas J. Traugher and<br>Kasey White | 01/18/02      | 10/053,527 |             |            | 013363/0484                                                                            |